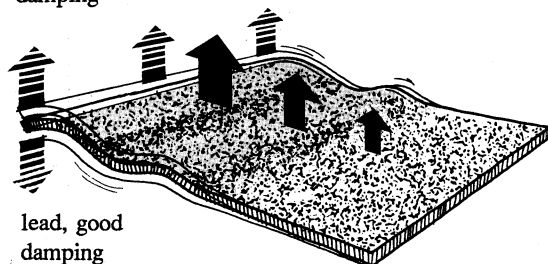
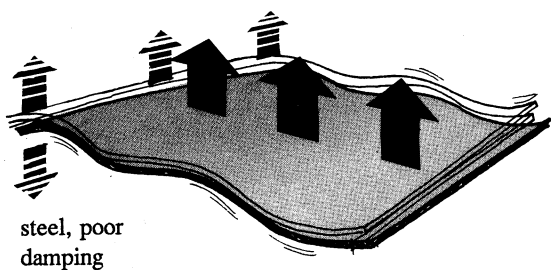


A DAMPED SURFACE PRODUCES LESS SOUND

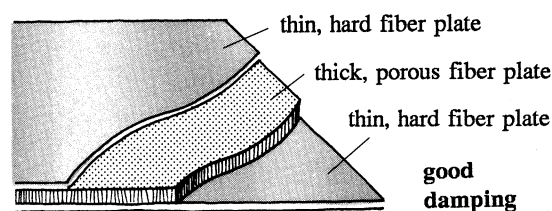
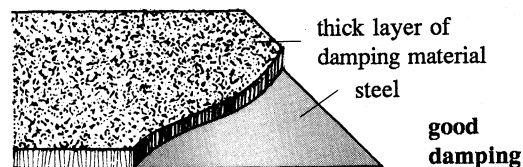
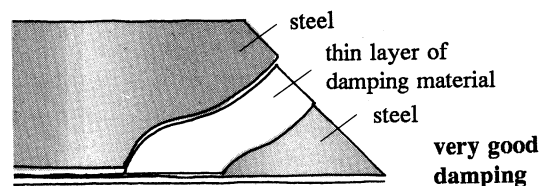
As vibration moves across a plate, it gradually decreases as it travels, but, in most plates, this reduction is rather small. In such cases, the material is said to have low internal damping. Internal damping in steel, for example, is extremely poor. Good damping can be achieved by adding coatings or intermediate layers with better internal damping.

Principle

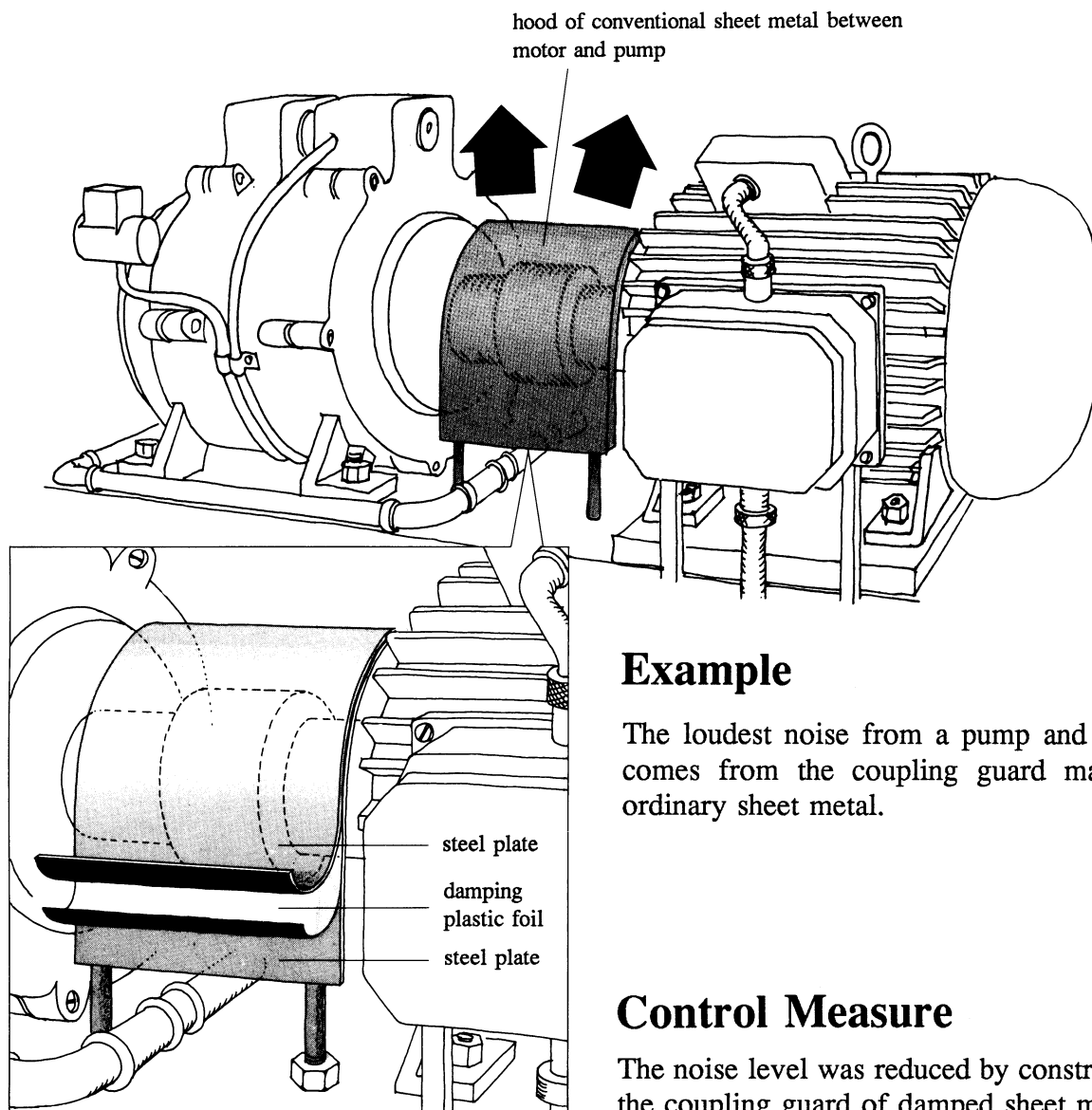
example of vibration movement in a plate



example of artificial damping



Application of hoods and protective covers



Example

The loudest noise from a pump and motor comes from the coupling guard made of ordinary sheet metal.

Control Measure

The noise level was reduced by constructing the coupling guard of damped sheet metal.